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10/580,007	05/02/2007	Mitsuharu Miwa	46884-5479	7737
55694 7590 08/23/2010 DRINKER BIDDLE & REATH (DC) 1500 K STREET, N.W.			EXAMINER	
			BRUTUS, JOEL F	
SUITE 1100 WASHINGTON, DC 20005-1209			ART UNIT	PAPER NUMBER
			3768	
			NOTIFICATION DATE	DELIVERY MODE
			08/23/2010	ELECTRONIC

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Notice of the Office communication was sent electronically on above-indicated "Notification Date" to the following e-mail address(es):

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Application No. Applicant(s) 10/580,007 MIWA ET AL. Office Action Summary Examiner Art Unit JOEL F. BRUTUS 3768 -- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --Period for Reply A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS. WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b). Status 1) Responsive to communication(s) filed on 16 July 2010. 2a) This action is FINAL. 2b) This action is non-final. 3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213. Disposition of Claims 4) Claim(s) 1.2 and 4-8 is/are pending in the application. 4a) Of the above claim(s) _____ is/are withdrawn from consideration. 5) Claim(s) _____ is/are allowed. 6) Claim(s) 1,2 and 4-8 is/are rejected. 7) Claim(s) _____ is/are objected to. 8) Claim(s) _____ are subject to restriction and/or election requirement. Application Papers 9) The specification is objected to by the Examiner. 10) The drawing(s) filed on is/are; a) accepted or b) objected to by the Examiner. Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a). Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152. Priority under 35 U.S.C. § 119 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received.

1) Notice of References Cited (PTO-892)

Paper No(s)/Mail Date 7/16/2010.

2) Notice of Draftsperson's Patent Drawing Review (PTO-948)
3) Information Disclosure Statement(c) (FTO/SB/CS)

Attachment(s)

Interview Summary (PTO-413)
 Paper No(s)/Mail Date.

6) Other:

5) Notice of Informal Patent Application.

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,DETAILED ACTION

Continued Examination Under 37 CFR 1.114

 A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection.
 Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114.
 Applicant's submission filed on 7/16/2010 has been entered.

Claim Rejections - 35 USC § 112

- 2. The following is a quotation of the first paragraph of 35 U.S.C. 112:
 - The specification shall contain a written description of the invention, and of the manner and process of making and using it, in such full, clear, concise, and exact terms as to enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make and use the same and shall set forth the best mode contemplated by the inventor of carrying out his invention.
- 3. Claims 1-2, and 4-8 are rejected under 35 U.S.C. 112, first paragraph, as failing to comply with the written description requirement. The claim(s) contains subject matter which was not described in the specification in such a way as to reasonably convey to one skilled in the relevant art that the inventor(s), at the time the application was filed, had possession of the claimed invention.

Regarding claim 1, line 12, the following limitation is not supported in the disclosure: "single image acquisition". Applicant disclose in paragraph 0050 that

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normal and fluorescence images are overlapped [see 0050. disclosure] but fails to disclose the images are acquired in a single image acquisition as claimed.

Regarding claims 2, 4-8, they are rejected for the same reason as set forth above because they depend on claim 1.

Claim Rejections - 35 USC § 103

- The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- Claims 1-2 and 4-8 are rejected under 35 U.S.C. 103(a) as being unpatentable over Hayashi (Pub. No.: US 2002/0013531) in view of Sekiguchi (US Pat: 4.821.117).

Regarding claims 1-2, Hayashi teaches a sentinel lymph node detection system that anticipates the claimed invention. Hayashi teaches a near infrared fluorescent colorant indocyanine green is locally injected in advance into the vicinity of a tumor [see 0059, 0101]; and the fluorescent light emitted from the area of tissue under examination upon irradiation thereof by stimulating light is observed by use of a goggle type observation unit and detection of the sentinel lymph node is performed [see 0059].

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Hayashi further teaches a fluorescent lamp and a stimulating light projecting unit which provided with a light source for producing fluorescent image observation using near infrared stimulating light [see 0060]; the lamp emits white light as illuminating light composed of visible light [see 0061]; the stimulating light is provided with a semiconductor laser for producing stimulating light having a wavelength of 790 nm and a light source driver [see 0062].

Hayashi teaches an observation unit comprises an objective lens, a near infrared cutoff filter having a wavelength of 700 nm or larger and another near infrared cutoff filter cuts off light having a wavelength of 820 nm or smaller [see 0064]; a photographing unit (image pick up means) [see 0080-84] and a monitor for displaying images [see 0100].

With regards to adjusting means; Applicant discloses adjusting a luminance of contrast of an image [see 0035].

However, Hayashi teaches a signal processing circuit 241 for performing sampling, amplifying and clamping [see 0085] which are image signal contrast and circuit 241 therefore is used as an adjusting means (emphasis added) and further disclose a signal processing circuit 231 to separate luminescence and color signals [see 0093].

Hayashi may not mention normal and florescence images are overlapped.

However, Hayashi discloses displaying a superposed image formed of the normal image composed of reflected illuminating light superposed with the fluorescent image [see 0044, 0099] and displaying both images at the same time [see abstract, 0099] which is overlapping (emphasis added). The observation

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image is obtained in a single acquisition by the photographing unit as disclosed avove.

Nevertheless, Sekiguchi teaches visible radiation image and the fluorescent image are simultaneously displayed or overlapped on the display unit 41 [see column 4 lines 23-25, lines 28-43 and fig 3].

Therefore, one with ordinary skill in the art at the time the invention was made would have been motivated to combine Hayashi with Sekiguchi by displaying visible (or normal) image overlapped with fluorescence image as shown in fig 3: in order to increase visualization.

Regarding claim 4, Hayashi teaches the observation unit comprises an eyepiece [see 0063] (eyepieces are made to be mounted on a head portion of an observer).

Regarding claim 5, Hayashi teaches a fluorescent image memory for saving the digitized color image signal, a D/A conversion circuit, A/D conversion circuit [see 0085, 0094-996].

Regarding claim 6, Hayashi also teaches observation means consisting of a variety of optical means, a normal image optical path, and optical system for focusing [see 0078]. The sentinel lymph node is implemented in laparoscope comprises an insertion portion, an illumination unit, a photographing unit [see 0080-84]; the insertion portion comprises a light quide [see 0082].

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Regarding claims 7-8, all other limitations are taught as set forth by the above teaching.

Hayashi doesn't teach reflection image at light intensity no more than fluorescence intensity of fluorescence image and nod no more than 10%.

However, Sekiguchi teaches visible radiation image/fluorescence intensity contour lines displaying switch 47 which instructs to display a visible radiation image and fluorescent image and fluorescent intensity contour lines to be overlapped each other [see column 4 lines 33-43]. It shows that light intensity of visible image and fluorescence image can be set through switch 47 (emphasis added)

Therefore, one with ordinary skill in the art at the time the invention was made would have been motivated to combine Hayashi with Sekiguchi; in order to use intensity as desired such as no more than 10% of the fluorescence image intensity.

Response to Arguments

 Applicant's arguments with respect to claims 1-2 and 4-8 have been considered but are moot in view of the new ground(s) of rejection.

Conclusion

 Any inquiry concerning this communication or earlier communications from the examiner should be directed to JOEL F. BRUTUS whose telephone number

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is (571)270-3847. The examiner can normally be reached on Mon-Fri 7:30 AM to 5:00 PM (Off alternative Fri).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Long Le can be reached on (571)272-0823. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/J. F. B./ Examiner, Art Unit 3768

> /Long V Le/ Supervisory Patent Examiner, Art Unit 3768